Reply to Office Action mailed 10/20/06

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Original) A method for designing a process, comprising:
 - (a) designing a process with a visual display surface;
- (b) generating a high-level code emission for the process; the process being specified by a visual image on the visual display surface; and
- (c) transforming the high-level code emission into computer-executable instructions.
- 2. (Original) The method of claim 1, further comprising:
 - (d) executing the computer-executable instructions.
- 3. (Original) The method of claim 1, wherein the process is a business process.
- 4. (Original) The method of claim 2, wherein (d) is executed on a plurality of computers.
- 5. (Original) The method of claim 4, wherein the computer-executable instructions are scalable.
- 6. (Original) The method of claim 2, wherein (d) comprises:
 - (i) obtaining the high-level code emission;
- (ii) retrieving information about an infrastructure on which the computerexecutable instructions are executed; and

Reply to Office Action mailed 10/20/06

(iii) executing the computer-executable instructions in accordance with the highlevel code emission and the information about the infrastructure.

7. (Original) The method of claim 6, wherein the computer-executable instructions are transport agnostic.

8. (Original) The method of claim 1, wherein (c) comprises:

- (i) compiling the high-level code emission to form compiled code; and
- (ii) assembling the compiled code to form the computer-executable instructions.
- 9. (Withdrawn) A method for construct a process, the method comprising:
 - (a) displaying a visual image to a user, the visual image specifying a process;
 - (b) receiving a command from the user about the process;
- (c) determining whether the command is consistent with semantics of a process type, the process being associated with the process type; and
 - (d) in response to (c), updating the visual image.
- 10. (Withdrawn) The method of claim 9, wherein (a) comprises:
- (i) supporting a plurality of shapes, each shape corresponding to a construct of the process.

Reply to Office Action mailed 10/20/06

11. (Withdrawn) The method of claim 10, wherein a listen shape corresponds to receiving one of a

plurality of message types.

- 12. (Withdrawn) The method of claim 10, wherein (d) comprises:
 - (i) in response to (c), positioning a selected shape within the visual image.
- 13. (Withdrawn) The method of claim 10, wherein (d) comprises:
- (i) in response to (c), if the command is not consistent with the semantics, generating an indicator of an error.
- 14. (Withdrawn) The method of claim 10, wherein (d) comprises:
- (i) in response to (c), if the command is not consistent with the semantics, rejecting the command.
- 15. (Withdrawn) The method of claim 13, wherein (d) further comprises:
 - (ii) positioning the indicator in a proximity of a selected shape.
- 16. (Withdrawn) The method of claim 15, wherein (d) further comprises:
 - (iii) generating an explanation of the error.
- 17. (Withdrawn) The method of claim 16, wherein (d) further comprises:
- (iv) positioning the explanation approximately at the proximity of the selected shape.

Reply to Office Action mailed 10/20/06

18. (Withdrawn) The method of claim 10, further comprising:

(e) generating a new construct that is associated with a customization shape.

19. (Withdrawn) The method of claim 18, wherein (e) comprises:

(i) receiving a shape specification of the customization shape;

(ii) receiving a segment of high-level code, the segment being associated with the

customization shape; and

(iii) associating the segment with the customization shape.

20. (Withdrawn) The method of claim 9, wherein the command denotes to expand the

visual image, and wherein (d) comprises:

(i) increasing a detail of the process by replacing a designated shape with a

collection of shapes.

21. (Withdrawn) The method of claim 9, wherein the command denotes to collapse the

visual image, and wherein (d) comprises:

(i) reducing a detail of the process by replacing a collection of shapes with a

designated shape.

22. (Withdrawn) The method of claim 9, further comprising:

(e) generating a high-level code emission that is consistent with the visual image.

Page 5 of 10

Reply to Office Action mailed 10/20/06

23. (Withdrawn) The method of claim 10, further comprising:

(e) for said each shape, generating at least one line of the high-level code.

24. (Withdrawn) The method of claim 9, wherein the process is a business process.

25. (Withdrawn) A computer-readable medium having computer-executable instructions

for performing the method recited in claim 1.

26. (Withdrawn) A computer-readable medium having computer-executable instructions

for performing the method recited in claim 6.

27. (Withdrawn) A computer-readable medium having computer-executable instructions

for performing the method recited in claim 9.

28. (Withdrawn) A computer-readable medium having computer-executable instructions

for performing the method recited in claim 22.

29. (Original) An apparatus for designing a process, comprising:

a visual designer that displays a visual image and that generates a high-level code

emission, the visual image specifying the process and the high-level code emission

specifying the process;

a compiler that obtains the high-level code emission from the visual designer and

that transforms the high-level code emission into compiled code; and

an assembler that assembles the compiled code into computer-executable

instructions.

Page 6 of 10

Reply to Office Action mailed 10/20/06

30. (Original) The apparatus of claim 29, further comprising:

an infrastructure knowledge base that contains information about an

infrastructure of an underlying computer system and an execution environment.

a process execution engine that queries the infrastructure knowledge base to

obtain the information and executes the computer-executable instructions in accordance

with the information, the information being indicative about a configuration of the

computer system, the process being executed on the computer system.

31. (Original) The apparatus of claim 30, wherein the process execution engine is

remotely located from the visual designer.

32. (Original) The apparatus of claim 30, wherein the process execution engine is co-

located with the visual designer.

33. (Original) The apparatus of claim 29, wherein the visual designer comprises:

an input module that receives a command from a user, the command;

a high-level language semantics module that contains semantics of a process type,

the process being associated with the process type;

a visual language logic module that determines whether the command is

consistent with the semantics of the process type; and

a display module that displays a visual image to a user, that queries the visual

language logic module about the command and updates the visual image in accordance

with the command, the visual image specifying the process.

Page 7 of 10

Attorney Docket No. 003797.00610

Appln. No.: 10/618,865 Amendment dated 11/08/06

Reply to Office Action mailed 10/20/06

34. (Original) A computer-readable medium having computer-executable modules,

comprising:

(a) an input module that receives a command from a user, the command;

(b) a high-level language semantics module that contains semantics of a process

type;

(c) a visual language logic module that determines whether the command is

consistent with the semantics of the process type; and

(d) a display module that displays a visual image to a user, that queries the visual

language logic module about the command and updates the visual image in accordance

with the command, the visual image specifying a process, the process being associated

with the process type.

35. (Original) The computer-readable medium of claim 34, wherein the display module

provides an indication to the user if the command is not consistent with the semantics.

36. (Original) A method for visually designing a business process, comprising:

(a) displaying a visual image to a user, the visual image specifying a business

process;

(b) receiving a command from the user to modify the business process;

(c) determining whether the command is consistent with semantics of a process

type, the business process being associated with the process type;

(d) in response to (c), updating the visual image.

Page 8 of 10

Attorney Docket No. 003797.00610

Appln. No.: 10/618,865 Amendment dated 11/08/06

Reply to Office Action mailed 10/20/06

(e) in response to (d) representing the process as a high-level code emission; and

(f) transforming the high-level code emission into computer-executable instructions; and

(g) executing the computer-executable instructions in accordance with the highlevel code emission and the information about an infrastructure of a system, the business process being executed on the system.